

| reserved band number | reserving band | number of assigns | reserving number of sum of bands band assigns assigned | effective term |
|-------------------------|-------------------|----------------------|---|------------------------|
| - | 10 M | 3 | 10 M | until 60 seconds later |
| 2 | 15 M | 7 | -10 M | until 90 seconds later |
| က | S M | ,d | X | until 60 seconds later |

number of assigns of relay processing unit in present data

9

remaining band which is allocable

50M

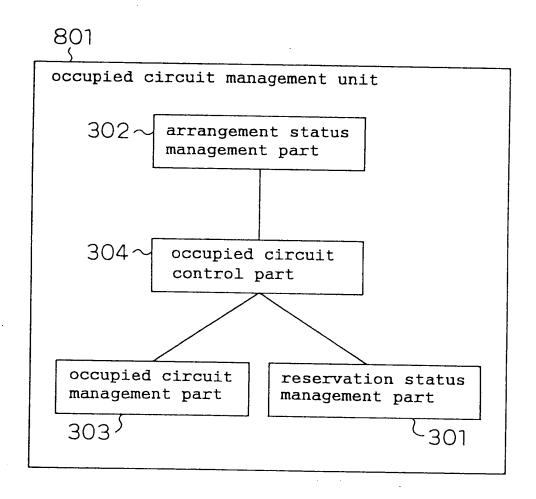
| | | | ·· | |
|---|-----------------|-----------------|-----------------|---|
| usage ratio of reservation type band | 10 / 2 = 5 | 10 / 3 = 3.3 | 20 / 4 = 5 | · |
| usage amount usage amount of of reservation non reservation type band | 2 M | 3 M | 4 M | |
| usage amount of reservation type band | 10 M | 10 M | 20 M | |
| terminal name | terminal unit A | terminal unit B | terminal unit C | |

•

| relay unit where terminal A is able to be relayed | allocable band width | communication price | goodness of fit |
|---|-------------------------|------------------------|---------------------|
| relay 1 | 10 M | 100,000 /hour | 100,000 / 10M = 1 |
| relay 2 | 20 M | 100,000 /hour | 100,000 / 20M = 0.5 |
| relay 3 | 30 M | 300,000 /hour | 300,000 / 30M = 1 |
| | | | |

| number of load of data rel processing processing unit | load of data relay processing unit | load of data relay processing delay/jitter unit | packet | avallable/ not avallable for band reception | reporting interval | effective time |
|---|---|--|--------|---|------------------------------|-------------------|
| 10 % 500 ms | 200 | msec. | % | available | every 50 seconds 100 seconds | 100 seconds |
| 80 % 20 m | | sec. | 10 % | not available | every 120 seconds | en seconds |
| 20 % 50 m | | msec. | 2 | available | every 30 seconds | 100 seconds |
| | | | | | | |

Fig. 8



Fis. 9

arrangement information

| 06 | | 905 |
|------------|---|-----------------------|
| address | $901 \rightarrow 902 \text{ or } 901 \rightarrow 903$ | $902 \rightarrow 904$ |
| connection | 901 | 905 |

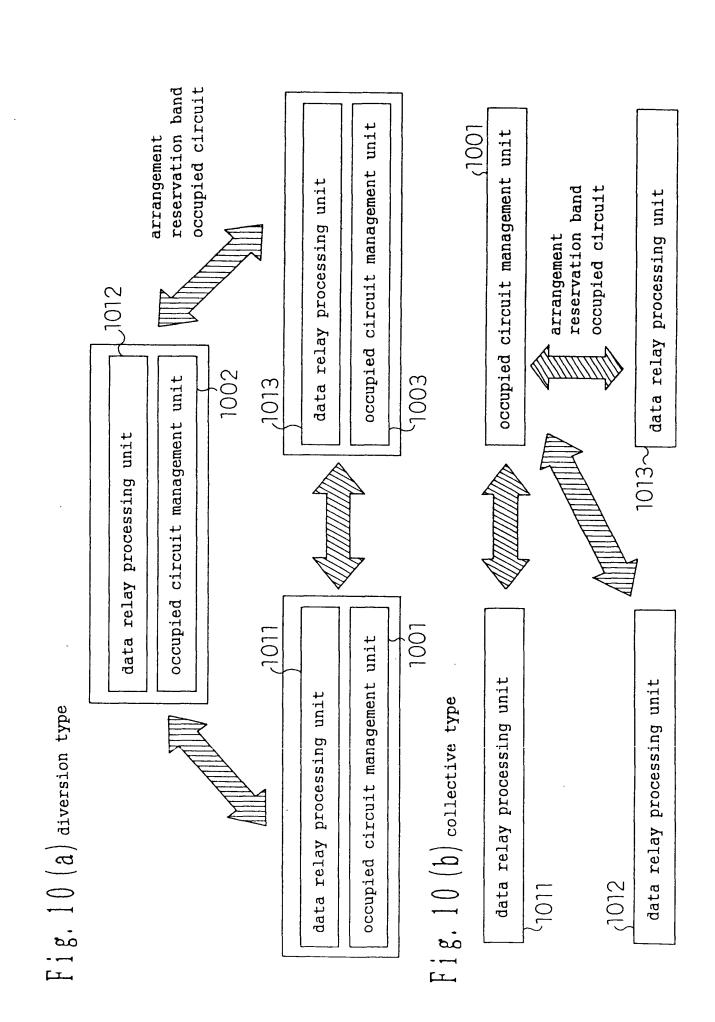
907 data relay processing unit

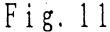
band reservation

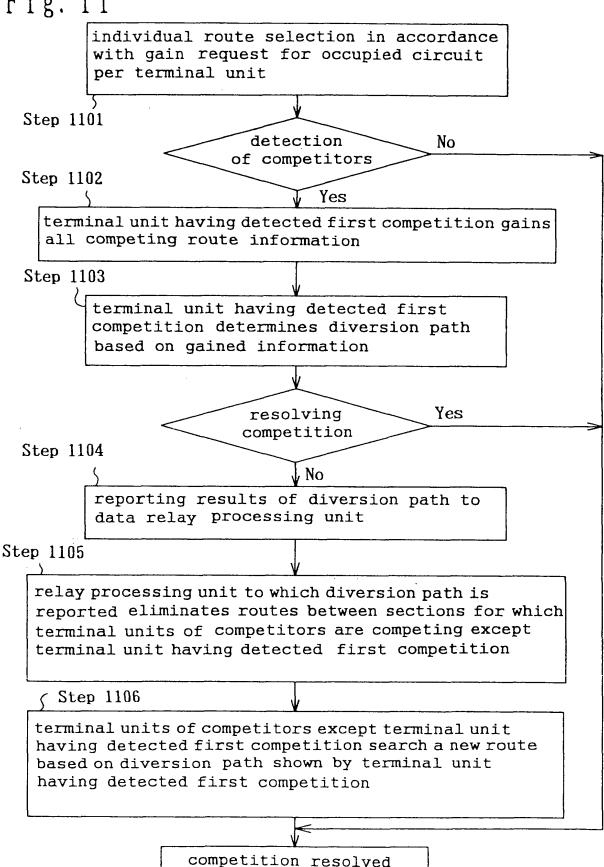
| allocable remaining bands | 30 M | 20 M | W 0 | 40 M |
|------------------------------|------|------|------|------|
| reservation band | 10 М | 10 M | 30 M | 10 M |
| relay node | 901 | 905 | 903 | 904 |

occupied circuit

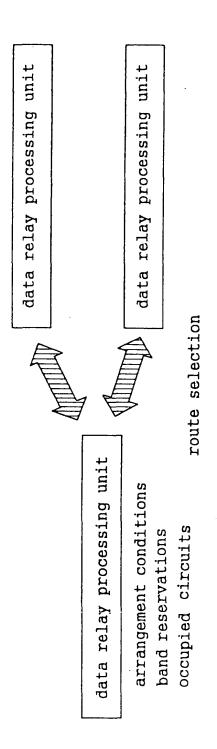
| circuit number | reservation route | number of transfers | sum of bands transferred | effective term |
|-------------------|---------------------------------------|------------------------|-----------------------------|------------------------|
| I | $901 \rightarrow 902 \rightarrow 904$ | - | 10 M | until 60 seconds later |
| 2 | $901 \rightarrow 903$ | - | -10 M | until 30 seconds later |



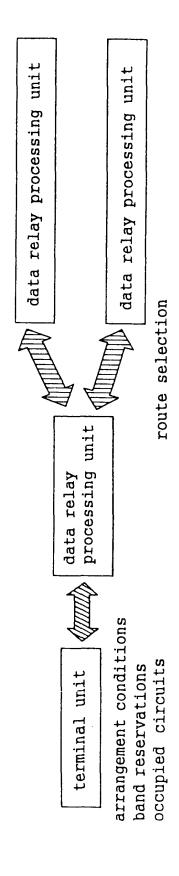


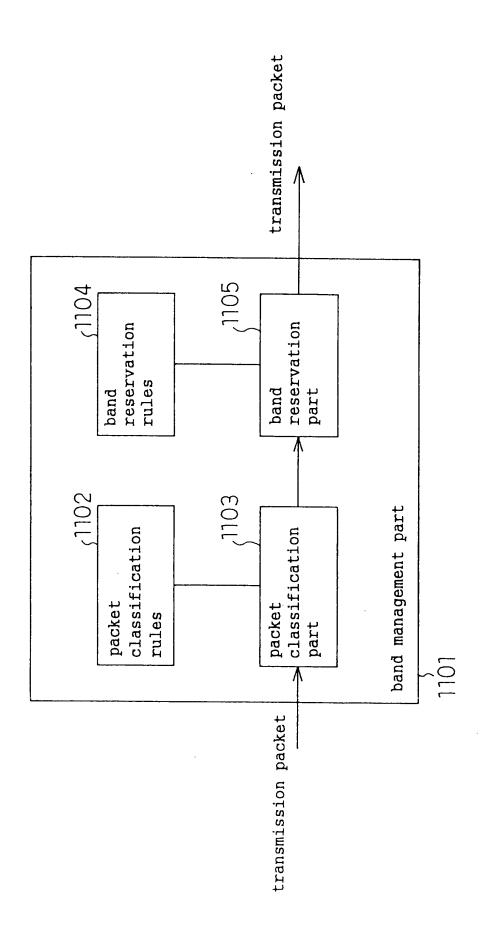


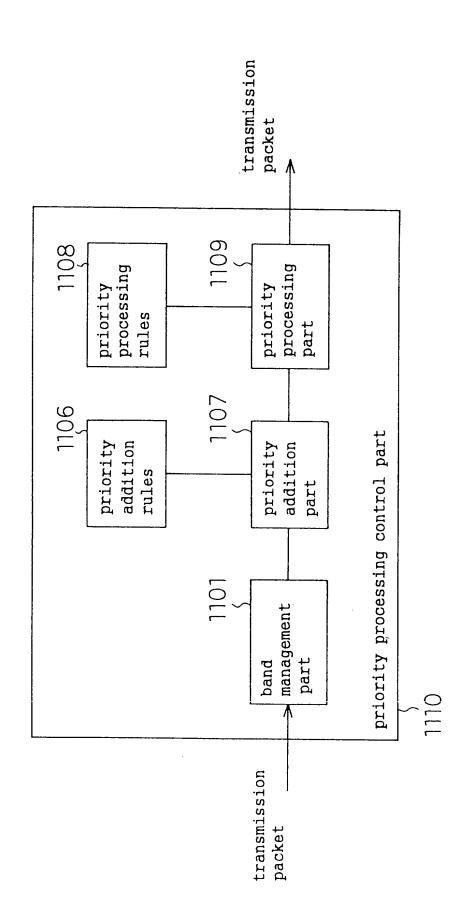
data relay processing units themselves determine data relay processing unit to be relayed next (securing bands and occupied circuits) 12 (a) Fish



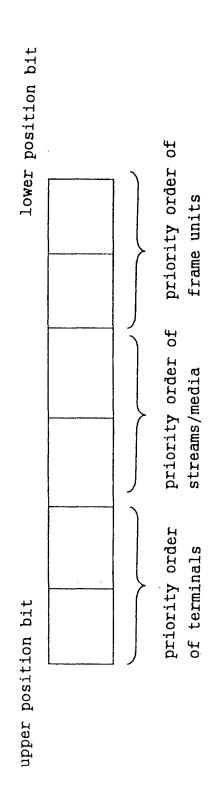
 $F\mid g\mid 1\ 2\ (b)$ terminal units determine data relay processing unit to be relayed (securing bands and occupied circuits)







example of added priority



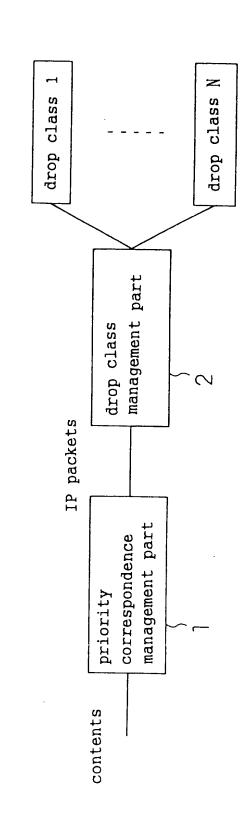
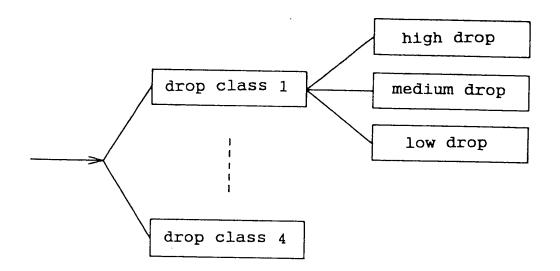
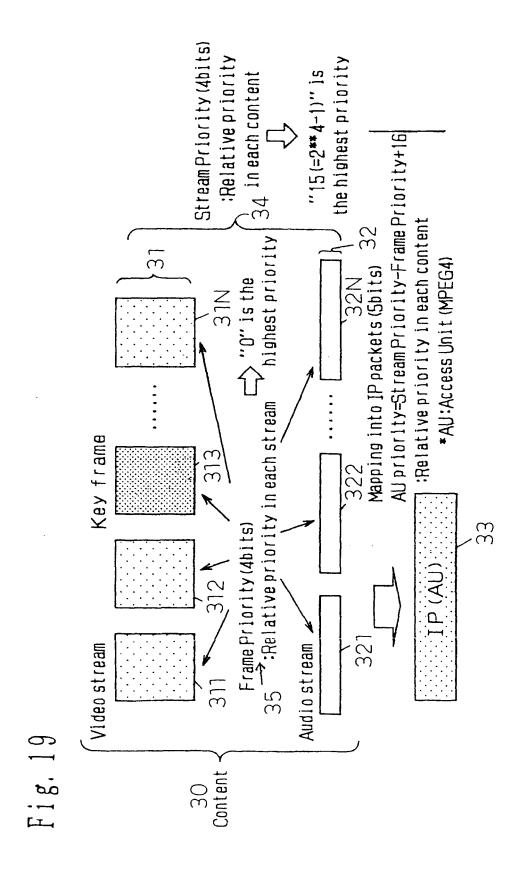
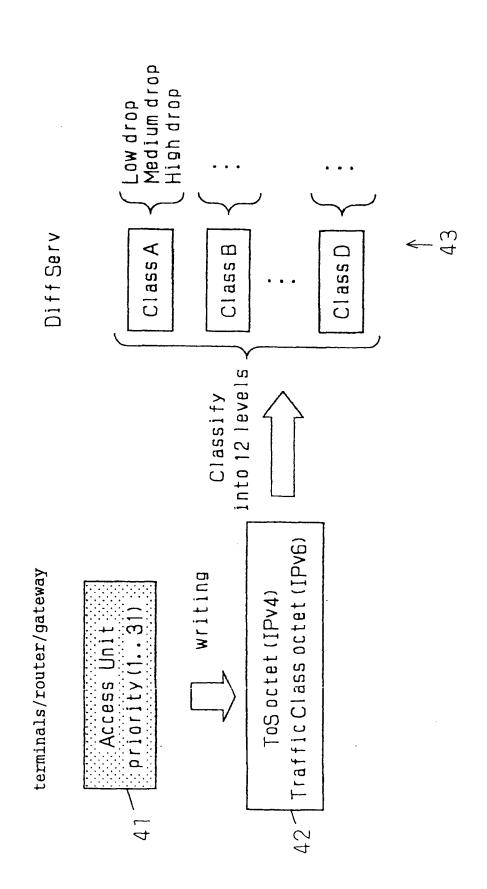
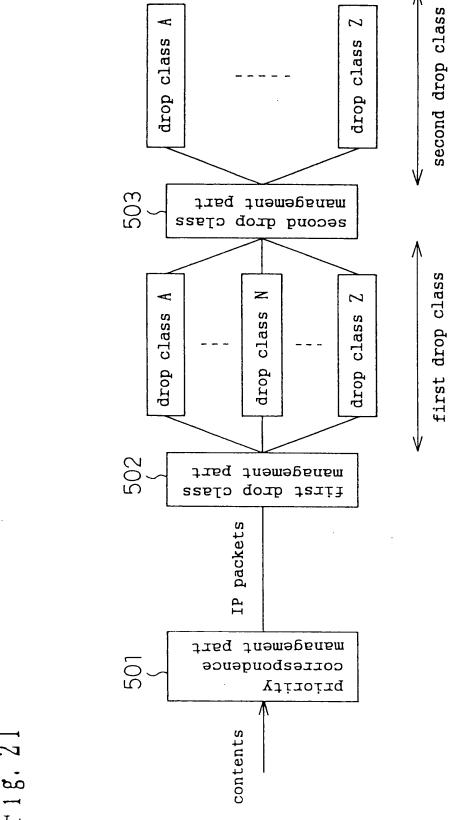


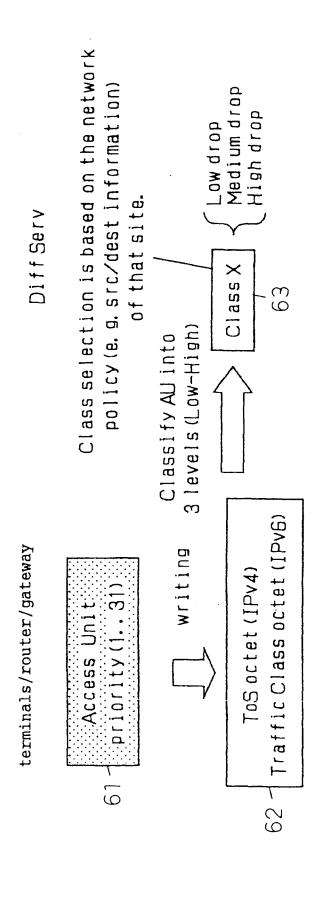
Fig. 18











F18.23

